

### SWATARA CREEK BASIN

#### 0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA (Swatara Creek Project)

**LOCATION.**--Lat 40°39'28", long 76°20'43", Schuylkill County, Hydrologic Unit 02050305, on left bank 500 ft downstream from bridge on U.S. Highway 209. Located on Swatara Coal Company property.

**DRAINAGE AREA.**--2.92 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

**PERIOD OF RECORD.**--July 1996 to current year.

**GAGE.**--Water-stage recorder. Elevation of gage is 900 ft above sea level, from topographic map.

**REMARKS.**--Records poor. Other data for this project presented in tables on pages 350-392. Diversion upstream from station by limestone treatment system used to aid in the remediation efforts of acid mine drainage.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 50 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge		Gage Height		Date	Time	Discharge		Gage Height	
		ft <sup>3</sup> /s	(ft)	*67	*2.12			No other peak greater than base discharge.	(ft)		
Mar. 21	2015										

#### DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	1.7	3.5	2.6	1.9	9.1	8.5	3.4	3.7	4.2	2.3	2.0
2	8.3	3.0	3.5	2.6	1.8	7.9	7.6	3.5	3.8	3.7	2.2	.83
3	6.8	3.9	3.3	2.5	e1.7	6.7	7.0	3.1	3.2	3.6	1.5	.60
4	7.7	2.5	3.2	3.1	1.7	6.0	11	3.0	3.1	3.5	1.2	.51
5	7.5	2.3	3.0	3.2	1.7	5.3	7.5	2.9	3.0	3.1	.96	.47
6	5.5	2.2	3.4	2.5	1.6	4.7	6.7	2.7	8.8	2.6	.98	.44
7	4.6	2.2	2.9	2.4	1.5	4.2	6.1	2.6	4.3	2.4	.97	.43
8	4.1	2.2	2.7	2.3	e1.4	3.9	9.3	2.5	3.4	2.2	.87	.40
9	3.6	2.1	2.6	2.2	e1.4	3.7	14	2.4	3.0	2.1	.83	.39
10	8.3	2.1	2.7	6.2	1.5	3.4	11	3.1	2.7	2.0	.82	.38
11	5.1	2.0	2.6	5.4	1.7	4.6	10	2.9	2.7	1.8	.77	.39
12	4.0	2.0	2.4	4.0	1.7	11	8.9	2.5	3.7	1.7	.79	.59
13	3.6	2.0	2.4	3.9	1.6	5.9	7.7	2.9	3.5	1.6	.82	3.4
14	4.5	2.0	7.2	e3.5	3.7	5.5	6.9	3.3	4.4	1.8	.76	.68
15	4.0	2.0	7.3	3.5	3.4	5.2	6.3	2.6	3.8	6.3	.69	.58
16	3.5	2.0	5.8	3.4	2.7	5.1	5.8	2.4	3.6	2.6	.65	.51
17	3.3	1.9	5.3	e3.4	2.7	8.7	6.3	2.3	3.1	1.1	.62	.50
18	3.2	1.9	5.0	e3.2	2.7	5.9	6.3	2.2	3.0	1.0	.63	.54
19	3.0	1.9	4.6	3.0	2.7	5.5	5.2	3.3	2.8	1.0	.58	1.0
20	3.2	1.9	5.3	3.0	2.7	5.2	4.8	4.6	2.5	.97	.52	1.2
21	2.9	1.9	5.5	2.9	2.6	21	5.7	3.6	4.4	.96	.50	.68
22	2.8	1.7	4.5	e2.7	2.5	32	5.4	3.7	5.2	1.1	.47	.62
23	2.7	1.7	4.1	2.6	3.0	20	4.9	4.4	3.2	.82	.57	.62
24	2.5	1.7	3.9	2.4	4.0	15	4.5	7.8	2.8	.79	.56	.62
25	2.3	2.6	3.7	2.4	6.4	12	4.3	6.8	4.2	.76	.45	.70
26	2.3	5.1	3.6	2.3	7.9	10	4.3	5.5	11	.79	.43	1.1
27	2.2	7.3	3.5	e2.2	8.4	11	4.5	5.1	6.5	.79	.41	.86
28	2.1	4.0	3.3	e2.1	17	24	4.1	4.9	5.2	.76	.44	.72
29	2.0	3.8	3.1	2.0	11	14	3.8	4.4	5.1	.73	.40	.67
30	1.8	3.7	2.9	e1.9	---	12	3.6	3.9	4.9	2.1	.40	.67
31	1.8	---	2.8	e1.9	---	9.9	---	3.8	---	1.7	.40	---
TOTAL	130.2	77.3	119.6	91.3	104.6	298.4	202.0	112.1	124.6	60.57	24.49	23.10
MEAN	4.20	2.58	3.86	2.95	3.61	9.63	6.73	3.62	4.15	1.95	.79	.77
MAX	11	7.3	7.3	6.2	17	32	14	7.8	11	6.3	2.3	3.4
MIN	1.8	1.7	2.4	1.9	1.4	3.4	3.6	2.2	2.5	.73	.40	.38

#### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

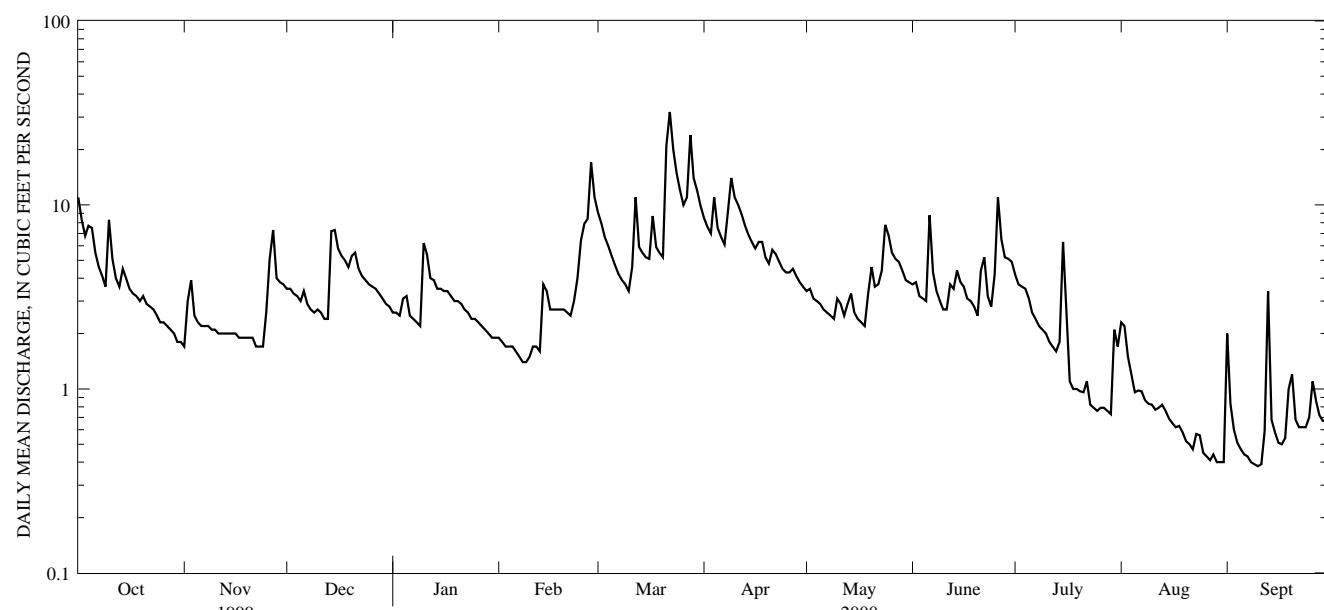
MEAN	3.56	3.53	5.65	6.35	6.07	7.80	5.76	4.53	3.85	1.88	1.04	1.77
MAX	7.81	8.40	15.3	10.9	10.4	9.63	8.09	9.19	6.11	3.61	1.88	3.92
(WY)	1997	1997	1997	1998	1998	2000	1998	1998	1998	1996	1997	1999
MIN	1.10	.86	.71	2.95	3.61	5.60	3.95	2.05	.89	.10	.26	.42
(WY)	1999	1999	1999	2000	2000	1999	1999	1999	1999	1999	1999	1998

e Estimated.

## SWATARA CREEK BASIN

0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1996 - 2000
ANNUAL TOTAL	1196.54	1368.26	
ANNUAL MEAN	3.28	3.74	
HIGHEST ANNUAL MEAN			4.26
LOWEST ANNUAL MEAN			5.48
HIGHEST DAILY MEAN	45	Jan 24	2.61
LOWEST DAILY MEAN	.00	Jul 27a	51 Oct 19 1996
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 29	.00 Jul 27 1999a
INSTANTANEOUS PEAK FLOW		b67 Mar 21	.00 Jul 29 1999
INSTANTANEOUS PEAK STAGE		2.12 Mar 21	b162 Jun 13 1998
INSTANTANEOUS LOW FLOW		.26 Sep 16	2.65 Jun 13 1998
10 PERCENT EXCEEDS	6.5	7.5	.00 Jul 27 1999a
50 PERCENT EXCEEDS	2.6	3.0	8.9
90 PERCENT EXCEEDS	.02	.68	2.7
			.53

**a** Several days.**b** From rating curve extended above 44 ft<sup>3</sup>/s.

## SWATARA CREEK BASIN

**0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA--Continued**  
**(Swatara Creek Project)**

### WATER-QUALITY RECORDS

**PERIOD OF RECORD.**--April 1996 to current year.

**PERIOD OF DAILY RECORD.--**

SPECIFIC CONDUCTANCE: July 1996 to current year.  
pH: July 1996 to current year.  
WATER TEMPERATURE: July 1996 to current year.

**INSTRUMENTATION.**--Water-quality monitor (in situ system). Automatic pumping sampler for stormflow samples since July 1996.

**REMARKS.**--Specific conductance records rated fair except for periods Oct. 1 to Mar. 3, May 31 to June 7, and Sept. 13-30, which are poor. pH records rated poor. The pH probe is subject to fowling from precipitation of iron, adhesion of lime on electrodes, and occasional burial by sediment. Water temperature records rated good. Interruptions in the record were due to malfunctions of the instrumentation. Some values for "dissolved" parameters exceed values for the corresponding "total" parameter. These results are within the limits of analytical precision and methods. Other data for the Swatara Creek Project presented in tables on pages 350-392. Figure 9 shows the location of sites sampled as part of the Swatara Creek Project.

**EXTREMES FOR PERIOD OF DAILY RECORD.--**

SPECIFIC CONDUCTANCE: Maximum, 438 microsiemens, Aug. 13, 1999; minimum, 51 microsiemens, July 24, 1997.  
pH: Maximum, 8.1, Aug. 14, 1999; minimum, 3.6, Oct. 21-23, 25, Dec. 3, 1996.  
WATER TEMPERATURE: Maximum, 23.5°C, July 5, 6, 1999; minimum, 0.0°C, many days during winters.

**EXTREMES FOR CURRENT YEAR.--**

SPECIFIC CONDUCTANCE: Maximum, 307 microsiemens, Aug. 31; minimum, 82 microsiemens, Mar. 21.  
pH: Maximum, 7.9, July 2; minimum, 4.5, Mar. 17.  
WATER TEMPERATURE: Maximum, 20.5°C, June 26; minimum 0.0°C, many days during winter.

## SWATARA CREEK BASIN

0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	AGENCY	AGENCY	DIS-	OXYGEN,	PH	PH	SPE-	CALCIUM		
		ANA-	COL-	CHARGE ,	DIS-	WATER	WATER	CIFIC			
		LYZING	LECTING	INST.	SOLVED	WHOLE	FIELD	CON-	TEMPER-		
		SAMPLE	SAMPLE	FEET	CENT	(STAND-	LAB	DUCT-	ATURE		
				PER-	SATU-	(00300)	ARD	ANCE	WATER		
				SECOND	RATION)	(MG/L)	ARD	(μS/CM)	(DEG C)		
		(00028)	(00027)	(00061)	(00301)	(00300)	(00400)	(00403)	(00010)		
						(00400)	(00400)	(00095)	(00915)		
OCT											
18...	1300	80020	1028	3.2	93	10.3	7.1	7.1	159	11.1	11.0
DEC											
06...	1130	80020	1028	3.9	94	10.8	6.8	6.7	129	9.1	8.66
14...	1400	80020	1028	4.6	--	--	6.8	7.6	127	4.8	12.6
14...	1500	80020	1028	7.2	--	--	7.2	7.7	130	4.3	12.3
14...	1630	80020	1028	16	--	--	7.0	8.1	96	4.4	10.8
14...	1800	80020	1028	17	7	--	6.6	7.4	86	4.5	7.83
14...	1930	80020	1028	15	--	--	6.5	7.2	88	4.7	7.51
14...	2100	80020	1028	13	--	--	6.5	7.8	90	4.8	7.85
15...	0001	80020	1028	11	--	--	5.8	7.3	96	5.0	7.62
15...	0300	80020	1028	9.1	--	--	5.9	7.7	100	5.2	7.75
15...	0730	80020	1028	7.7	--	--	6.4	7.3	104	5.4	8.24
15...	1800	80020	1028	6.2	--	--	7.2	7.2	111	6.3	8.84
15...	2245	80020	1028	6.0	--	--	7.2	7.3	111	6.5	9.75
16...	0015	80020	1028	6.0	--	--	7.3	7.2	112	6.6	10.2
16...	1100	80020	1028	5.8	--	--	7.3	7.4	114	6.1	9.78
JAN											
19...	1000	9813	1028	2.9	106	15.3	6.6	--	157	.6	11.2
MAR											
03...	1000	9813	1028	6.9	106	1.5	5.3	--	154	5.4	8.14
17...	0001	9813	1028	7.2	--	--	5.3	--	165	8.2	18.1
17...	0300	9813	1028	9.7	--	--	4.9	--	129	7.8	12.5
17...	0600	9813	1028	11	--	--	4.7	--	127	6.7	10.2
17...	0730	9813	1028	11	--	--	4.7	--	127	6.3	9.33
17...	1030	9813	1028	10	--	--	4.5	--	128	5.9	8.04
17...	1330	9813	1028	8.2	--	--	4.6	--	136	6.4	8.49
17...	1800	9813	1028	7.4	--	--	4.7	--	136	4.9	8.50
22...	1745	9813	1028	27	--	--	5.8	--	158	7.7	7.65
27...	2145	9813	1028	13	--	--	5.3	6.3	141	8.5	11.5
27...	2230	9813	1028	18	--	--	5.2	6.3	133	8.6	11.0
28...	0130	9813	1028	41	--	--	5.4	5.8	111	8.4	6.65
28...	0300	9813	1028	42	--	--	5.5	5.9	116	8.1	7.04
28...	0600	9813	1028	30	--	--	5.6	5.9	126	7.5	7.12
28...	0900	9813	1028	23	--	--	5.6	5.7	130	7.5	7.68
28...	1330	9813	1028	18	--	--	5.6	5.8	121	8.9	7.53
28...	2100	9813	1028	16	--	--	5.6	5.8	134	8.0	8.44
29...	0730	9813	1028	15	--	--	5.6	5.7	146	7.1	8.07
APR											
04...	0430	9813	1028	12	--	--	5.7	6.0	138	11.0	8.57
04...	0600	9813	1028	15	--	--	5.8	5.6	135	10.7	7.56
04...	0730	9813	1028	15	--	--	5.5	5.4	126	10.6	6.56
04...	0900	9813	1028	14	--	--	5.6	5.2	127	10.5	6.38
04...	1030	9813	1028	13	--	--	5.6	5.1	127	10.6	6.40
04...	1200	9813	1028	13	--	--	5.6	5.2	127	10.6	6.43
04...	1330	9813	1028	12	--	--	5.6	5.2	129	10.5	6.54
04...	1500	9813	1028	11	--	--	5.6	5.3	131	10.5	6.62
17...	1100	9813	1028	6.0	94	10.9	6.0	6.3	154	9.1	9.46
MAY											
17...	0945	9813	1028	2.2	100	10.9	5.8	6.3	156	12.0	12.6
19...	0945	9813	1028	3.6	--	--	5.9	6.8	150	13.2	16.3
19...	1200	9813	1028	4.9	--	--	6.1	6.7	144	13.3	15.5
19...	1500	9813	1028	4.2	--	--	6.4	6.5	130	13.2	11.8
19...	1800	9813	1028	3.6	--	--	6.4	6.6	136	12.6	12.7
20...	0530	9813	1028	4.6	--	--	6.5	6.7	131	10.0	13.4
20...	1030	9813	1028	6.0	--	--	6.4	6.5	133	10.2	13.4
20...	1200	9813	1028	6.7	--	--	6.4	6.6	130	10.3	12.9
20...	1500	9813	1028	5.6	--	--	6.4	6.6	134	10.6	11.7
20...	1930	9813	1028	4.6	--	--	6.4	6.5	134	10.5	11.0
23...	2045	9813	1028	5.8	--	--	7.0	6.9	121	12.2	11.7
24...	0001	9813	1028	7.4	--	--	6.7	6.8	109	12.5	9.36
24...	0300	9813	1028	10	--	--	6.7	6.6	115	12.3	8.87
24...	0600	9813	1028	9.1	--	--	6.6	6.4	110	12.0	8.26
24...	0900	9813	1028	7.7	--	--	6.4	6.4	105	12.7	7.75

## SWATARA CREEK BASIN

0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CALCIUM (MG/L) (00916)	MAGNE- SIUM, (MG/L) (00925)	POTAS- SIUM, (MG/L) (00927)	POTAS- SIUM, (MG/L) (00935)	SODIUM, TOTAL DIS- ERABLE SOLVED	SODIUM, TOTAL DIS- ERABLE SOLVED	SODIUM, TOTAL DIS- ERABLE SOLVED	ACIDITY (MG/L) (00929)	ANC TOTAL HEATED UNFLTRD WATER FET FIELD AS CACO3 (70508)
	AS CA (AS MG)	AS MG	AS K)	AS K)	(00930)	(00937)	(00930)	AS CACO3 (00435)	MG/L AS CACO3 (00410)
<b>OCT</b>									
18...	--	5.85	--	--	--	6.6	--	.0	--
DEC									
06...	--	4.53	--	--	--	6.0	--	5.9	--
14...	--	4.57	--	--	--	5.6	--	--	--
14...	--	4.02	--	--	--	5.3	--	--	--
14...	--	3.16	--	--	--	4.8	--	--	--
14...	--	2.60	--	--	--	4.7	--	--	--
14...	--	2.44	--	--	--	5.1	--	--	--
14...	--	2.61	--	--	--	5.4	--	--	--
15...	--	2.82	--	--	--	5.5	--	--	--
15...	--	2.99	--	--	--	5.8	--	--	--
15...	--	3.17	--	--	--	6.0	--	--	--
15...	--	3.44	--	--	--	5.5	--	--	--
15...	--	3.62	--	--	--	6.0	--	--	--
16...	--	3.67	--	--	--	6.1	--	--	--
16...	--	3.88	--	--	--	6.2	--	--	--
JAN									
19...	15.3	6.61	6.65	<1.0	<1.0	5.7	5.7	--	.00
MAR									
03...	8.50	6.47	6.30	<1.0	<1.0	6.4	6.2	--	6.0
17...	166	5.18	6.87	--	--	7.5	7.8	.0	.00
17...	17.8	4.30	4.68	--	--	7.0	7.1	.0	.00
17...	10.5	4.03	4.21	--	--	6.8	6.9	.0	.60
17...	9.50	4.12	4.04	--	--	7.3	7.0	.0	1.2
17...	8.45	4.01	4.10	--	--	7.3	7.4	.0	2.0
17...	8.57	4.28	4.31	--	--	7.3	7.4	--	.00
17...	8.85	4.56	4.67	--	--	7.6	7.8	--	.00
22...	7.73	5.88	5.59	--	--	5.8	5.9	--	12
27...	15.7	5.47	5.88	--	--	5.9	6.2	--	.00
27...	15.7	5.47	5.15	--	--	5.8	6.0	.0	.00
28...	7.41	2.95	3.15	--	--	7.0	7.1	--	8.0
28...	7.41	2.82	3.00	--	--	7.5	7.2	--	8.0
28...	7.37	3.21	3.29	--	--	7.9	8.0	--	5.6
28...	7.73	3.82	3.76	--	--	8.0	7.7	--	5.0
28...	7.85	4.15	4.28	--	--	7.1	7.1	--	4.8
28...	8.93	5.04	5.25	--	--	6.6	6.8	--	6.6
29...	8.66	5.27	5.64	--	--	6.6	6.5	--	7.4
APR									
04...	8.91	4.85	4.98	--	--	6.7	7.0	--	8.2
04...	7.87	4.23	4.59	--	--	7.0	7.4	--	10
04...	6.79	3.75	3.99	--	--	7.5	7.6	--	11
04...	6.64	3.75	3.96	--	--	7.3	7.5	--	9.4
04...	6.70	3.84	4.04	--	--	7.3	7.5	--	9.6
04...	6.51	3.90	3.98	--	--	7.3	7.4	--	11
04...	6.68	4.00	4.12	--	--	7.3	7.4	--	8.4
04...	6.87	4.05	4.25	--	--	7.2	7.6	--	9.2
17...	14.1	6.50	6.50	<1.0	<1.0	6.3	6.3	--	3.2
MAY									
17...	13.9	7.16	7.27	--	--	7.4	7.7	--	.20
19...	18.2	5.75	6.19	--	--	6.7	6.8	--	.00
19...	18.9	5.03	5.04	--	--	7.1	7.1	--	.00
19...	12.9	4.22	4.15	--	--	6.4	6.5	--	.00
19...	13.9	4.38	4.47	--	--	6.6	6.4	--	.00
20...	17.8	4.59	4.89	--	--	6.5	6.7	--	.00
20...	15.7	4.72	4.87	--	--	6.7	6.9	--	.00
20...	15.3	4.56	4.73	--	--	6.4	6.4	--	.00
20...	15.5	3.93	3.82	--	--	6.4	6.4	--	.00
20...	11.3	4.11	4.03	--	--	7.0	6.9	--	.00
23...	17.8	4.27	4.40	--	--	6.6	6.9	--	.00
24...	16.4	3.69	3.75	--	--	6.0	6.0	--	.00
24...	14.0	3.37	3.60	--	--	6.1	6.3	--	.00
24...	11.1	3.22	3.33	--	--	6.8	6.7	--	2.2
24...	9.25	3.21	3.32	--	--	6.6	6.8	--	2.0

## SWATARA CREEK BASIN

0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ANC WATER UNFLTRD FET LAB DATE	CHLO- RIDE, DIS- SOLVED MG/L AS CACO3 (00417)	SULFATE DIS- SOLVED (MG/L AS CL) (00940)	NITRO- GEN, AMMONIA (MG/L AS SO4) (00945)	NITRO- GEN, TOTAL (MG/L AS N) (00610)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS (MG/L AS P) (00620)	NITRO- GEN, TOTAL (MG/L AS N) (00620)	OXID- ATION RED- UCTION POTEN- TIAL (MV)	RESIDUE TOTAL DEG. C, SUS- PENDED (MG/L) (00530)	ALUM- INUM, DIS- SOLVED (µg/L AS AL) (01106)	
OCT												
18...	--	10.0	46.9	--	--	--	--	--	339	--	58	
DEC												
06...	--	9.7	37.9	--	--	--	--	--	405	--	25	
14...	--	9.2	42.8	--	--	--	--	--	--	--	47	
14...	--	8.9	34.9	--	--	--	--	--	--	--	26	
14...	--	7.9	28.1	--	--	--	--	--	--	--	41	
14...	--	7.7	23.9	--	--	--	--	--	--	--	40	
14...	--	8.3	22.4	--	--	--	--	--	--	--	43	
14...	--	8.7	23.1	--	--	--	--	--	--	--	41	
15...	--	8.9	25.2	--	--	--	--	--	--	--	48	
15...	--	8.9	26.3	--	--	--	--	--	--	--	46	
15...	--	9.4	27.4	--	--	--	--	--	--	--	38	
15...	--	9.3	29.8	--	--	--	--	--	--	--	37	
15...	--	9.2	31.0	--	--	--	--	--	--	--	34	
16...	--	9.2	31.4	--	--	--	--	--	--	--	30	
16...	--	9.2	32.5	--	--	--	--	--	--	--	40	
JAN												
19...	10	8.4	52.5	--	--	--	--	--	369	8	<200	
MAR												
03...	3	8.4	52.4	--	--	--	--	--	434	20	526	
17...	34	12.1	40.7	--	--	--	--	--	--	78	716	
17...	12	11.0	33.9	--	--	--	--	--	--	78	431	
17...	8	11.6	32.6	--	--	--	--	--	--	28	<200	
17...	7	12.7	31.8	--	--	--	--	--	--	24	<200	
17...	6	12.1	32.7	--	--	--	--	--	--	26	<200	
17...	6	12.3	34.6	--	--	--	--	--	--	48	<200	
17...	5	13.0	37.1	--	--	--	--	--	--	16	<200	
22...	2	9.5	53.3	--	--	--	--	--	496	10	641	
27...	11	9.2	46.7	--	--	--	--	--	--	54	<200	
27...	9	9.6	43.7	--	--	--	--	--	--	82	<200	
28...	4	13.6	24.4	--	--	--	--	--	--	186	<200	
28...	4	12.3	22.8	--	--	--	--	--	--	200	245	
28...	4	12.6	25.8	--	--	--	--	--	--	80	<200	
28...	4	12.0	30.6	--	--	--	--	--	--	36	<200	
28...	4	11.4	35.2	--	--	--	--	--	--	32	<200	
28...	4	10.9	40.4	--	--	--	--	--	--	26	<200	
29...	3	9.3	45.6	--	--	--	--	--	--	18	<200	
APR												
04...	6	9.9	44.5	.12	.57	--	.070	--	--	62	<200	
04...	3	10.6	37.8	.15	.76	--	.040	--	--	222	<200	
04...	3	10.8	34.1	.13	.56	--	.020	--	--	72	<200	
04...	3	11.3	36.1	.14	.53	--	.020	--	--	28	<200	
04...	3	10.8	33.9	.11	.50	--	.020	--	--	10	<200	
04...	3	10.9	35.3	.12	.45	--	.020	--	--	56	<200	
04...	3	10.6	35.0	.12	.44	--	.010	--	--	216	<200	
04...	3	10.9	35.9	.11	.42	--	.010	--	--	66	<200	
17...	7	9.5	50.0	--	--	--	--	--	399	24	<200	
MAY												
17...	7	9.8	50.6	.03	.17	.12	<.010	159	8	<200		
19...	16	9.4	47.4	.04	.37	.18	.020	--	10	<200		
19...	15	10.3	42.3	.07	.42	.19	.020	--	32	<200		
19...	12	10.7	36.1	.05	.31	.16	.010	--	18	<200		
19...	12	11.0	38.1	.05	.28	.14	.010	--	6	<200		
20...	14	9.3	39.9	.07	.43	.18	.030	--	20	<200		
20...	12	9.9	41.1	.04	.32	.15	.020	--	18	<200		
20...	12	10.0	39.0	.06	.41	.18	.030	--	44	<200		
20...	12	10.2	32.5	.08	.44	.16	.030	--	72	<200		
20...	11	10.0	33.4	.07	.31	.14	.020	--	10	<200		
23...	12	10.3	34.2	.07	.40	.15	.020	--	40	<200		
24...	11	9.9	32.3	.10	.47	.18	.020	--	72	<200		
24...	10	9.8	31.3	.11	.59	.22	.020	--	122	<200		
24...	8	10.3	27.2	.10	.43	.17	.010	--	46	<200		
24...	7	10.3	28.0	.11	.36	.15	.010	--	24	<200		

## SWATARA CREEK BASIN

0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ALUM- INUM, TOTAL RECOV- ERABLE	BARIUM, ( $\mu\text{G/L}$ AS AL) (01105)	CADMIUM ( $\mu\text{G/L}$ AS BA) (01005)	CHRO- MIUM, DIS- SOLVED	COBALT, ( $\mu\text{G/L}$ AS CR) (01025)	COBALT, ( $\mu\text{G/L}$ AS CO) (01030)	TOTAL RECOV- ERABLE	COPPER, ( $\mu\text{G/L}$ AS CO) (01035)	COPPER, ( $\mu\text{G/L}$ AS CU) (01037)	COPPER, ( $\mu\text{G/L}$ AS CU) (01040)	IRON, TOTAL RECOV- ERABLE	IRON, ( $\mu\text{G/L}$ AS FE) (01042)	IRON, ( $\mu\text{G/L}$ AS FE) (01046)	IRON, TOTAL RECOV- ERABLE	
OCT															
18...	--	--	--	--	--	--	--	--	--	--	--	60	--	--	
DEC															
06...	--	--	--	--	--	--	--	--	--	--	--	80	--	--	
14...	--	26	<8.0	<14.0	E7	--	<10	--	--	--	--	20	--	--	
14...	--	20	<8.0	<14.0	<13	--	<10	--	--	--	--	E10	--	--	
14...	--	19	<8.0	<14.0	E7	--	<10	--	--	--	--	20	--	--	
14...	--	20	<8.0	<14.0	<13	--	<10	--	--	--	--	20	--	--	
14...	--	22	<8.0	<14.0	<13	--	<10	--	--	--	--	30	--	--	
14...	--	26	<8.0	<14.0	E6	--	<10	--	--	--	--	40	--	--	
15...	--	28	<8.0	<14.0	E11	--	<10	--	--	--	--	50	--	--	
15...	--	31	<8.0	<14.0	E10	--	<10	--	--	--	--	60	--	--	
15...	--	32	<8.0	<14.0	E10	--	<10	--	--	--	--	60	--	--	
15...	--	33	<8.0	<14.0	<13	--	<10	--	--	--	--	30	--	--	
15...	--	34	<8.0	<14.0	E11	--	<10	--	--	--	--	30	--	--	
16...	--	34	<8.0	<14.0	E8	--	<10	--	--	--	--	20	--	--	
16...	--	35	<8.0	<14.0	E13	--	<10	--	--	--	--	60	--	--	
JAN															
19...	829	--	--	--	--	--	--	--	--	--	--	270	550	--	
MAR															
03...	1030	--	--	--	--	--	--	--	--	--	--	680	920	--	
17...	23300	--	--	--	<50	121	11	92	830	830	830	39700			
17...	4390	--	--	--	<50	<50	<10	16	680	680	680	5110			
17...	2360	--	--	--	<50	<50	11	14	310	310	310	2720			
17...	2210	--	--	--	<50	<50	<10	18	180	180	180	2220			
17...	1600	--	--	--	<50	<50	<10	10	210	210	210	1320			
17...	1340	--	--	--	<50	<50	<10	<10	230	230	230	1140			
17...	1000	--	--	--	<50	<50	<10	11	370	370	370	1440			
22...	1160	--	--	--	<50	<50	<10	<10	430	430	430	1090			
27...	2510	--	--	--	<50	<50	<10	12	140	140	140	3460			
27...	3400	--	--	--	<50	<50	<10	13	180	180	180	4570			
28...	4900	--	--	--	<50	<50	<10	18	330	330	330	7840			
28...	6190	--	--	--	<50	<50	<10	28	390	390	390	8750			
28...	2830	--	--	--	<50	<50	<10	18	400	400	400	3330			
28...	1790	--	--	--	<50	<50	<10	12	510	510	510	2450			
28...	1250	--	--	--	<50	<50	<10	<10	470	470	470	1660			
28...	1080	--	--	--	<50	<50	<10	25	490	490	490	1490			
29...	1090	--	--	--	<50	<50	<10	<10	610	610	610	1020			
APR															
04...	3270	--	--	--	<50	<50	<10	<10	370	370	370	3950			
04...	8060	--	--	--	<50	<50	<10	18	410	410	410	11400			
04...	4620	--	--	--	<50	<50	<10	<10	380	380	380	3610			
04...	2190	--	--	--	<50	<50	<10	<10	470	470	470	1960			
04...	1940	--	--	--	<50	<50	<10	<10	500	500	500	1820			
04...	1310	--	--	--	<50	<50	<10	<10	620	620	620	1430			
04...	1320	--	--	--	<50	<50	<10	<10	590	590	590	1380			
04...	1200	--	--	--	<50	<50	<10	<10	620	620	620	1330			
17...	749	--	--	--	--	--	--	--	730	730	730	1140			
MAY															
17...	701	--	--	--	<50	<50	<10	<10	150	150	150	560			
19...	1160	--	--	--	<50	<50	<10	<10	<20	<20	<20	1250			
19...	2780	--	--	--	<50	<50	<10	<10	30	30	30	4810			
19...	1380	--	--	--	<50	<50	14	<10	20	20	20	1470			
19...	720	--	--	--	<50	<50	<10	<10	30	30	30	740			
20...	1420	--	--	--	<50	<50	<10	<10	30	30	30	1550			
20...	1270	--	--	--	<50	<50	<10	<10	30	30	30	1170			
20...	3970	--	--	--	<50	<50	<10	<10	50	50	50	2960			
20...	5990	--	--	--	<50	<50	<10	<10	50	50	50	5120			
20...	1350	--	--	--	<50	<50	<10	<10	30	30	30	1250			
23...	2650	--	--	--	<50	<50	<10	<10	20	20	20	2160			
24...	3010	--	--	--	<50	<50	<10	<10	30	30	30	3510			
24...	5480	--	--	--	<50	<50	<10	<10	40	40	40	9920			
24...	2980	--	--	--	<50	<50	<10	<10	90	90	90	2650			
24...	1720	--	--	--	<50	<50	<10	<10	110	110	110	1520			

## SWATARA CREEK BASIN

0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	LEAD, SOLVED ( $\mu\text{G/L}$ AS PB) (01049)	TOTAL ERABLE ( $\mu\text{G/L}$ AS PB) (01051)	LITHIUM SOLVED ( $\mu\text{G/L}$ AS LI) (01130)	MANGANESE, SOLVED ( $\mu\text{G/L}$ AS MN) (01056)	NICKEL, SOLVED ( $\mu\text{G/L}$ AS MN) (01055)	NICKEL, ERABLE ( $\mu\text{G/L}$ AS NI) (01065)	STRON- TIUM, SOLVED ( $\mu\text{G/L}$ AS SR) (01067)	ZINC, DIS- SOLVED ( $\mu\text{G/L}$ AS ZN) (01080)	ZINC, TOTAL RECOV- ERABLE ( $\mu\text{G/L}$ AS ZN) (01090)
<b>OCT</b>									
18...	--	--	--	444	--	--	--	--	--
DEC									
06...	--	--	--	321	--	--	--	--	--
14...	<100	--	E2.5	254	--	<40	--	30.3	E13
14...	<100	--	<3.9	239	--	<40	--	29.2	<20
14...	<100	--	<3.9	215	--	<40	--	25.2	<20
14...	<100	--	<3.9	226	--	<40	--	21.6	<20
14...	<100	--	<3.9	238	--	<40	--	20.9	E17
14...	<100	--	<3.9	255	--	<40	--	22.7	21
15...	<100	--	<3.9	272	--	<40	--	23.0	29
15...	<100	--	<3.9	284	--	<40	--	23.6	32
15...	<100	--	E2.5	291	--	E25	--	25.1	29
15...	<100	--	E2.3	283	--	<40	--	26.2	28
15...	<100	--	E2.9	299	--	E18	--	27.5	29
16...	<100	--	<3.9	298	--	<40	--	28.3	34
16...	<100	--	E3.7	307	--	E32	--	28.5	33
JAN									
19...	--	--	--	430	434	--	--	--	--
MAR									
03...	--	--	--	496	492	--	--	--	--
17...	<1	27	--	229	1940	<50	171	--	28
17...	<1	3	--	334	477	<50	<50	--	33
17...	<1	2	--	355	427	<50	74	--	49
17...	<1	<1	--	380	397	<50	<50	--	48
17...	<1	2	--	375	388	<50	<50	--	52
17...	<1	<1	--	396	412	<50	<50	--	51
17...	<1	<1	--	412	426	108	127	--	57
22...	<1	2	--	452	451	<50	<50	--	85
27...	<1	<1	--	474	571	64	84	--	69
27...	1	<1	--	440	543	<50	<50	--	41
28...	<1	5	--	344	418	<50	<50	--	45
28...	<1	6	--	337	400	<50	81	--	57
28...	<1	2	--	338	369	<50	<50	--	55
28...	<1	2	--	380	395	<50	<50	--	56
28...	<1	1	--	401	445	<50	<50	--	62
28...	<1	1	--	457	484	51	55	--	71
29...	<1	1	--	445	466	<50	<50	--	66
APR									
04...	<1	3	--	480	515	<50	<50	--	76
04...	<1	6	--	477	532	<50	<50	--	61
04...	<1	2	--	410	434	<50	<50	--	69
04...	<1	2	--	411	434	<50	<50	--	71
04...	<1	1	--	415	437	<50	<50	--	73
04...	<1	<1	--	417	425	<50	<50	--	72
04...	<1	<1	--	421	434	<50	<50	--	73
04...	<1	<1	--	423	443	<50	<50	--	72
17...	--	--	--	520	522	--	--	--	--
MAY									
17...	<1	<1	--	462	466	<50	<50	--	74
19...	<1	3	--	400	453	<50	<50	--	15
19...	<1	3	--	381	448	<50	<50	--	10
19...	<1	1	--	330	349	<50	<50	--	11
19...	<1	<1	--	337	353	<50	<50	--	12
20...	<1	2	--	331	383	<50	<50	--	23
20...	<1	1	--	363	390	<50	<50	--	24
20...	<1	2	--	344	383	<50	<50	--	14
20...	<1	3	--	321	347	<50	<50	--	14
20...	<1	<1	--	358	371	<50	<50	--	23
23...	<1	2	--	313	346	<50	<50	--	65
24...	<1	2	--	303	344	<50	<50	--	18
24...	<1	4	--	320	399	<50	<50	--	19
24...	<1	2	--	309	330	<50	<50	--	21
24...	<1	1	--	300	311	<50	<50	--	45

## SWATARA CREEK BASIN

0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	AGENCY	AGENCY	DIS-	OXYGEN,	PH	PH	SPE-	CALCIUM	CALCIUM		
		ANA-	COL-	CHARGE,	DIS-	WATER	WATER	CIFIC		TOTAL		
		LYZING	LECTING	INST.	SOLVED	WHOLE	WHOLE	CON-	DUCT-	RECOV-		
		SAMPLE	SAMPLE	CUBIC	(PER-	OXYGEN,	FIELD	LAB	ATURE	SOLVED		
				FEET	CENT	DIS-	(STAND-	(STAND-	WATER	(MG/L)		
				PER	SATUR-	SOLVED	ARD	ARD	(DEG C)	(AS CA)		
				SECOND	ATION	(MG/L)	UNITS)	UNITS)	(US/CM)	(000915)		
		(CODE	(CODE	(00028)	(00027)	(00061)	(00301)	(00300)	(00400)	(000916)		
		NUMBER)	NUMBER)									
JUN												
06...	0230	9813	1028	3.0	--	--	7.0	6.3	168	11.7	11.7	25.1
06...	0445	9813	1028	6.1	--	--	6.2	--	149	11.4	--	--
06...	0730	9813	1028	15	--	--	5.4	6.0	114	11.9	9.17	12.8
06...	1030	9813	1028	11	--	--	5.2	5.7	108	12.0	7.00	7.91
06...	1330	9813	1028	7.4	--	--	5.6	5.7	111	12.1	6.98	8.12
06...	1430	9813	1028	6.3	--	--	5.7	5.9	112	12.1	8.49	8.43
07...	1030	9813	1028	2.8	--	--	7.3	--	119	12.4	--	--
13...	1245	9813	1028	2.3	97	9.9	7.2	6.8	154	14.2	11.8	16.9
JUL												
14...	1930	9813	1028	--	--	--	--	6.9	--	--	20.7	98.6
14...	2100	9813	1028	--	--	--	--	6.4	--	--	20.7	26.5
15...	0001	9813	1028	--	--	--	--	6.3	--	--	20.5	23.1
15...	0300	9813	1028	--	--	--	--	6.4	--	--	17.8	20.5
15...	0900	9813	1028	--	--	--	--	6.3	--	--	16.3	19.2
15...	1330	9813	1028	--	--	--	--	6.3	--	--	15.9	16.8
15...	1500	9813	1028	--	--	--	--	6.3	--	--	16.1	19.0
15...	1600	9813	1028	--	--	--	--	6.3	--	--	16.4	26.0
15...	1700	9813	1028	--	--	--	--	6.5	--	--	16.1	45.1
15...	1800	9813	1028	--	--	--	--	6.3	--	--	12.5	20.7
15...	1930	9813	1028	--	--	--	--	5.9	--	--	8.43	10.3
15...	2100	9813	1028	--	--	--	--	6.1	--	--	9.63	12.3
15...	2230	9813	1028	--	--	--	--	6.1	--	--	9.71	10.2
16...	0130	9813	1028	--	--	--	--	6.3	--	--	10.8	11.3
AUG												
02...	1215	9813	1028	1.7	91	8.6	6.4	6.2	180	18.8	13.0	13.8
SEP												
13...	1100	9813	1028	2.0	94	9.1	7.0	6.5	156	17.2	13.4	13.9

DATE	MAGNE-	MAGNE-	POTAS-	POTAS-	SODIUM,	SODIUM,	ACIDITY	ANC	CHLO-	SULFATE					
	SIUM,	TOTAL	SIUM,	TOTAL	TOTAL	RECOV-	TOTAL	TOTAL	WATER	HEATED	UNFLTRD	FET	DIS-	DIS-	
	DIS-	RECOV-	DIS-	RECOV-	DIS-	RECOV-	ACIDITY	(MG/L)	AS	AS	AS	AS	SOLVED	SOLVED	
	(MG/L)	(00929)	(00435)	(70508)	(00417)	(00940)	(00945)								
	(00925)	(00927)	(00935)	(00937)	(00930)	(00930)	(CAC03)	(CAC03)	(CAC03)	(00920)	(00435)	(70508)	(00417)	(00940)	(00945)
JUN															
06...	5.47	5.93	--	--	6.0	5.8	--	.00	14	9.8	48.7				
06...	--	--	--	--	--	--	--	--	--	--	--				
06...	3.29	3.31	--	--	5.7	5.6	--	.00	11	8.7	28.0				
06...	2.83	2.99	--	--	5.8	5.7	--	4.4	5	8.6	26.3				
06...	3.13	3.36	--	--	5.9	6.0	--	4.0	5	9.3	29.0				
06...	3.65	3.71	--	--	6.2	6.2	--	1.8	6	10.7	35.5				
07...	--	--	--	--	--	--	--	--	--	--	--				
13...	4.82	4.91	<1.0	<1.0	7.5	7.5	.0	.00	15	11.8	43.4				
JUL															
14...	8.13	10.0	--	--	7.2	7.7	--	.00	28	10.7	62.2				
14...	7.37	7.75	--	--	6.6	6.5	--	.00	22	9.5	58.4				
15...	7.60	7.88	--	--	7.6	8.2	--	.00	19	11.8	59.7				
15...	5.96	6.00	--	--	7.8	7.6	--	.00	17	11.5	50.9				
15...	6.09	6.17	--	--	8.0	8.1	--	.00	16	12.2	49.1				
15...	6.52	6.30	--	--	8.1	7.8	--	.00	14	12.1	50.6				
15...	6.19	6.27	--	--	7.3	7.1	--	.00	16	11.1	48.3				
15...	5.16	5.47	--	--	5.8	5.6	--	.00	20	8.8	40.9				
15...	4.12	6.88	--	--	4.1	4.3	--	.00	28	6.3	30.0				
15...	3.40	4.17	--	--	4.5	4.5	--	.00	16	7.4	28.1				
15...	2.59	3.12	--	--	5.0	5.1	--	8.6	7	8.5	23.2				
15...	3.17	3.60	--	--	5.2	5.2	--	.60	11	8.4	28.6				
15...	3.54	3.79	--	--	5.4	5.4	--	1.8	10	8.6	29.9				
16...	3.97	4.19	--	--	5.8	5.8	--	.00	11	9.1	33.8				
AUG															
02...	7.41	7.78	<1.0	<1.0	6.0	6.3	--	1.4	8	9.4	59.5				
SEP															
13...	5.86	5.93	2.0	1.9	5.9	6.0	.0	.00	11	45.8	44.3				

## SWATARA CREEK BASIN

0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NITRO-	NITRO-	OXID-	RESIDUE	ALUM-	COBALT, TOTAL ( $\mu\text{G/L}$ AS CO)	COPPER, DIS- SOLVED ( $\mu\text{G/L}$ AS CU)	
	GEN,	GEN,	ATION	TOTAL	INUM,			
	AMMONIA	TOTAL	PHOS-	RED-	TOTAL	INUM, RECOV-		
	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MV)	SUS-	SOLVED	DIS- ERABLE
	(AS N)	(AS N)	(AS N)	(AS P)	(00090)	(00530)	( $\mu\text{G/L}$ AS AL)	( $\mu\text{G/L}$ AS AL)
	(00610)	(00600)	(00620)	(00665)	(00090)	(00530)	(01106)	(01105)
JUN								
06...	.08	.56	.19	.040	--	102	<200	3690
06...	--	--	--	--	--	--	--	--
06...	.13	.92	.22	.060	--	300	<200	9460
06...	.10	.57	.16	.030	--	82	<200	4850
06...	.09	.47	.15	.020	--	38	<200	3030
06...	.06	.34	.14	.010	--	8	1020	<200
07...	--	--	--	--	--	--	--	<50
13...	--	--	--	--	286	30	<200	628
JUL								
14...	--	--	--	--	--	402	<200	16300
14...	--	--	--	--	--	218	<200	5690
15...	--	--	--	--	--	42	<200	2950
15...	--	--	--	--	--	110	<200	3470
15...	--	--	--	--	--	32	243	2090
15...	--	--	--	--	--	16	<200	1190
15...	--	--	--	--	--	52	<200	2400
15...	--	--	--	--	--	258	<200	5120
15...	--	--	--	--	--	1060	<200	25700
15...	--	--	--	--	--	576	<200	11800
15...	--	--	--	--	--	326	<200	8830
15...	--	--	--	--	--	164	<200	4980
15...	--	--	--	--	--	136	<200	3670
16...	--	--	--	--	--	50	<200	3930
AUG								
02...	--	--	--	--	383	16	<200	384
SEP								
13...	--	--	--	--	363	38	1200	1660
JUN								
COPPER ,	IRON ,	IRON ,	LEAD ,	MANGA-	MANGA-	NICKEL ,	ZINC ,	ZINC ,
TOTAL	IRON ,	TOTAL	LEAD ,	TOTAL	NESE ,	TOTAL	TOTAL	TOTAL
RECOV-	DIS-	RECOV-	DIS-	RECOV-	DIS-	RECOV-	DIS-	RECOV-
ERABLE	SOLVED	ERABLE	SOLVED	ERABLE	SOLVED	ERABLE	SOLVED	ERABLE
( $\mu\text{G/L}$ AS CU)	( $\mu\text{G/L}$ AS FE)	( $\mu\text{G/L}$ AS FE)	( $\mu\text{G/L}$ AS PB)	( $\mu\text{G/L}$ AS PB)	( $\mu\text{G/L}$ AS MN)	( $\mu\text{G/L}$ AS MN)	( $\mu\text{G/L}$ AS NI)	( $\mu\text{G/L}$ AS ZN)
(01042)	(01046)	(01045)	(01049)	(01051)	(01056)	(01055)	(01065)	(01067)
JUL								
06...	13	20	4690	<1	10	382	485	<50
06...	--	--	--	--	--	--	--	--
06...	25	50	23200	<1	9	320	490	<50
06...	12	70	5880	<1	3	304	359	<50
06...	<10	90	3520	<1	3	319	355	<50
06...	<10	1170	120	<1	<1	350	352	<50
07...	--	--	--	--	--	--	--	--
13...	--	100	800	--	--	403	420	--
AUG								
02...	--	110	350	--	--	448	471	--
SEP								
13...	--	1260	1710	--	--	490	504	--

## SWATARA CREEK BASIN

0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	171	136	156	172	167	170	132	125	127	158	153	155
2	177	165	169	173	117	161	128	124	126	158	154	156
3	174	166	170	151	126	139	132	127	129	168	153	157
4	173	129	154	155	147	150	138	129	133	167	123	153
5	158	130	144	155	150	153	140	134	137	150	124	139
6	162	153	157	154	150	152	142	124	131	155	148	152
7	166	159	163	153	148	151	143	129	135	154	150	152
8	170	162	166	151	147	149	143	138	140	161	151	154
9	167	162	164	154	148	151	167	142	148	155	152	153
10	165	102	125	156	152	154	155	138	146	155	93	132
11	139	118	130	155	142	148	145	138	142	144	101	126
12	140	135	138	158	149	153	155	144	146	151	133	143
13	141	135	140	159	153	156	154	141	147	158	147	152
14	140	129	135	165	154	161	143	86	119	159	138	152
15	147	139	143	165	154	160	113	96	108	166	147	159
16	153	144	147	163	160	161	119	111	114	169	144	156
17	155	147	151	162	158	160	127	116	121	172	151	160
18	163	150	157	161	158	160	134	125	130	186	163	176
19	163	158	161	165	158	162	149	133	136	163	155	159
20	161	146	153	164	156	161	141	116	131	163	153	155
21	156	152	154	173	152	155	131	116	124	166	156	161
22	156	151	153	161	158	159	134	128	132	172	162	166
23	158	152	155	161	156	159	137	133	135	167	162	165
24	169	155	160	159	154	157	145	135	139	166	162	164
25	166	160	163	154	124	135	148	143	146	165	159	162
26	164	160	162	141	104	126	149	143	147	167	161	164
27	166	160	163	137	114	128	152	142	146	174	163	168
28	173	160	165	142	134	138	152	147	150	177	169	174
29	171	166	168	137	133	135	152	147	149	181	174	177
30	195	166	170	135	130	132	151	148	149	182	172	177
31	170	166	168	---	---	---	162	149	152	174	168	170
MONTH	195	102	155	173	104	151	167	86	136	186	93	158
	FEBRUARY			MARCH			APRIL			MAY		
1	169	164	166	145	127	135	161	155	157	161	156	159
2	170	164	167	150	127	137	158	154	156	157	149	153
3	172	167	169	157	133	150	159	152	156	158	154	156
4	176	167	172	155	151	153	153	126	135	158	154	155
5	188	167	174	159	151	153	146	139	143	161	155	158
6	185	177	181	160	153	155	150	145	146	162	151	154
7	182	169	173	157	151	154	150	147	148	158	152	155
8	186	167	175	165	150	153	154	108	139	159	155	157
9	191	167	179	156	150	153	128	109	119	160	157	159
10	181	172	175	154	150	152	137	123	130	164	120	150
11	189	171	176	155	118	140	142	136	140	146	127	140
12	199	171	184	160	102	130	148	141	145	159	145	150
13	210	180	196	159	136	143	150	147	148	157	136	152
14	213	119	155	169	144	148	151	148	149	158	133	145
15	151	128	142	170	146	150	152	149	150	159	152	155
16	157	143	151	165	146	153	162	148	151	159	155	158
17	146	140	143	165	125	134	156	139	148	157	154	156
18	167	138	142	156	142	149	146	140	143	159	155	156
19	159	141	147	208	155	180	158	144	149	158	129	145
20	152	147	150	194	183	188	154	151	153	145	125	135
21	157	141	150	197	82	164	154	135	144	148	137	145
22	148	137	144	170	115	142	145	136	139	147	127	138
23	197	136	148	170	148	157	143	139	142	132	109	126
24	146	114	133	162	146	154	145	142	144	116	104	110
25	157	98	119	159	144	148	145	139	142	121	107	115
26	103	97	99	162	143	151	150	140	143	127	115	122
27	103	97	101	160	117	150	148	140	143	131	126	129
28	139	88	104	137	109	125	146	142	144	136	128	131
29	143	110	127	152	136	146	155	145	149	139	130	136
30	---	---	---	155	151	153	172	152	156	141	136	138
31	---	---	---	157	154	155	---	---	---	158	137	144
MONTH	213	88	153	208	82	150	172	108	145	164	104	145

## SWATARA CREEK BASIN

0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	158	140	152	---	---	---	272	115	234	306	130	205
2	161	140	151	---	---	---	242	134	185	272	219	251
3	175	160	166	176	154	165	257	158	230	284	268	276
4	184	173	178	171	151	159	266	192	236	288	276	282
5	185	165	178	182	132	169	266	254	260	290	280	285
6	176	95	118	186	174	180	267	253	261	296	285	290
7	141	113	124	188	170	183	273	248	262	300	289	293
8	149	127	139	189	182	185	280	268	273	300	289	295
9	160	137	150	189	177	183	286	275	280	302	294	297
10	169	158	161	187	171	178	292	282	286	303	295	299
11	173	159	168	182	173	178	296	285	290	304	296	299
12	173	147	156	188	178	182	298	283	292	304	145	291
13	180	151	162	191	185	188	296	284	290	246	95	173
14	154	126	144	194	125	184	299	290	294	276	242	263
15	165	138	149	184	84	142	298	290	294	283	270	277
16	147	125	139	209	112	165	301	290	294	302	279	285
17	172	136	152	269	209	241	299	292	296	295	284	289
18	176	166	171	280	264	273	300	292	296	295	289	292
19	177	167	170	281	272	278	299	290	296	297	170	264
20	178	146	170	284	277	280	300	294	297	267	189	232
21	179	92	165	286	228	277	304	295	298	280	265	274
22	151	107	128	278	209	251	304	296	300	283	274	279
23	162	148	154	288	271	276	305	283	294	288	280	284
24	166	157	160	298	271	276	297	281	291	290	283	286
25	171	96	160	279	272	275	300	291	295	290	250	281
26	142	99	119	279	273	276	302	292	297	272	213	236
27	141	124	133	282	273	278	303	289	299	261	216	244
28	157	139	148	286	277	282	303	294	299	277	260	270
29	151	139	144	286	278	282	305	294	300	284	273	279
30	149	110	142	284	128	217	305	297	301	289	279	284
31	---	---	---	261	130	207	307	297	302	---	---	---
MONTH	185	92	152	298	84	221	307	115	281	306	95	272
YEAR	307	82	176									

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	6.9	6.7	6.8	6.1	6.1	6.1	6.6	6.4	6.5	6.8	6.5	6.6
2	7.0	6.8	7.0	6.4	6.1	6.1	6.7	6.4	6.6	6.6	6.4	6.4
3	7.1	6.9	7.0	6.5	6.4	6.5	7.1	6.4	6.9	6.4	6.1	6.4
4	7.0	6.8	6.9	6.6	6.5	6.5	6.9	6.3	6.7	6.9	6.2	6.4
5	7.1	6.7	6.9	6.6	6.6	6.6	6.8	6.6	6.6	6.5	6.1	6.4
6	7.2	7.0	7.1	6.7	6.6	6.6	7.1	6.5	6.8	6.5	6.4	6.4
7	7.2	7.0	7.1	6.7	6.6	6.7	7.2	7.1	7.2	6.5	6.4	6.4
8	7.0	6.9	7.0	6.7	6.6	6.7	7.3	6.3	6.4	6.4	6.3	6.4
9	7.0	6.9	7.0	6.7	6.6	6.7	7.6	6.1	6.3	6.4	6.3	6.4
10	7.0	6.3	6.5	6.7	6.7	6.7	7.5	7.1	7.2	6.5	5.1	6.3
11	7.1	6.4	7.1	6.8	6.4	6.5	7.1	6.7	6.9	6.6	5.3	6.4
12	7.1	7.0	7.0	6.4	6.3	6.4	6.9	6.5	6.7	6.7	6.6	6.6
13	7.0	7.0	7.0	6.6	6.3	6.4	7.0	6.7	6.8	6.7	6.6	6.6
14	7.0	6.8	6.9	6.6	6.5	6.6	7.2	5.8	6.9	6.6	6.4	6.5
15	7.0	6.8	7.0	7.3	6.6	6.6	7.3	5.8	7.1	6.5	6.4	6.5
16	7.1	7.0	7.1	7.3	6.9	7.1	7.3	6.2	6.7	6.6	6.4	6.5
17	7.1	7.1	7.1	6.9	6.6	6.7	6.3	6.1	6.2	6.6	6.4	6.5
18	7.4	7.0	7.2	6.7	6.6	6.6	6.2	6.0	6.1	6.6	6.4	6.5
19	7.0	6.1	6.2	7.0	6.6	6.8	6.9	6.2	6.3	7.2	6.5	6.8
20	6.1	5.8	5.9	6.9	6.8	6.9	6.9	6.4	6.8	7.3	7.1	7.3
21	5.9	5.8	5.9	6.9	6.6	6.8	6.5	6.4	6.5	7.2	7.0	7.1
22	5.8	5.7	5.8	6.8	6.7	6.8	6.6	6.3	6.4	7.2	7.0	7.1
23	5.8	5.7	5.7	6.8	6.6	6.7	6.6	6.4	6.5	7.2	7.0	7.1
24	6.2	5.6	6.0	6.7	6.6	6.7	6.8	6.5	6.5	7.1	7.0	7.1
25	6.1	5.9	6.0	6.9	6.6	6.8	6.8	6.6	6.7	7.1	7.0	7.1
26	6.0	5.9	5.9	7.0	5.5	6.7	6.7	6.5	6.6	7.1	6.9	7.0
27	5.9	5.8	5.9	6.2	5.1	5.9	6.9	6.4	6.6	6.9	6.7	6.8
28	6.2	5.8	6.0	6.7	6.0	6.3	6.9	6.7	6.8	6.9	6.7	6.8
29	6.3	6.0	6.2	6.7	6.5	6.6	6.8	6.7	6.8	6.9	6.7	6.7
30	6.2	6.0	6.1	6.6	6.5	6.5	6.8	6.4	6.6	6.8	6.7	6.7
31	6.2	6.1	6.1	---	---	---	6.8	6.3	6.4	6.8	6.7	6.7
MAX	7.4	7.1	7.2	7.3	6.9	7.1	7.6	7.1	7.2	7.3	7.1	7.3
MIN	5.8	5.6	5.7	6.1	5.1	5.9	6.2	5.8	6.1	6.4	5.1	6.3

## SWATARA CREEK BASIN

0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	FEBRUARY			MARCH			APRIL			MAY		
1	6.8	6.6	6.7	5.3	5.1	5.2	6.1	5.7	5.8	7.0	6.8	6.9
2	6.7	6.6	6.7	5.4	5.1	5.3	5.9	5.8	5.8	7.1	7.0	7.0
3	6.7	6.5	6.6	5.6	5.2	5.4	5.9	5.7	5.8	7.0	6.9	7.0
4	6.6	6.4	6.5	5.8	5.5	5.7	5.8	5.5	5.6	7.0	6.9	6.9
5	6.5	6.4	6.4	6.6	5.7	5.8	5.8	5.7	5.8	6.9	6.8	6.9
6	6.6	6.4	6.5	6.7	6.4	6.5	6.1	5.7	5.8	6.9	6.7	6.8
7	6.5	6.4	6.4	6.7	6.5	6.6	6.0	5.8	5.9	7.0	6.9	7.0
8	6.6	6.3	6.4	6.8	6.4	6.6	6.2	5.6	5.8	7.0	6.1	6.5
9	6.6	6.3	6.5	6.9	6.7	6.8	5.9	5.5	5.7	6.1	5.9	6.0
10	6.5	6.3	6.4	6.8	6.4	6.6	5.8	5.6	5.6	6.4	5.8	5.9
11	6.5	6.3	6.4	6.5	5.6	6.4	5.7	5.6	5.6	6.4	6.2	6.4
12	6.5	6.3	6.4	5.9	4.8	5.0	5.6	5.5	5.6	6.4	6.1	6.2
13	6.3	6.1	6.2	6.0	5.0	5.1	5.7	5.6	5.6	6.1	5.8	6.0
14	6.6	6.2	6.3	5.9	5.1	5.5	5.7	5.5	5.5	6.3	5.8	5.9
15	6.9	6.6	6.9	5.4	5.1	5.2	5.6	5.5	5.5	6.0	5.8	5.9
16	7.0	6.8	6.9	5.5	5.2	5.3	6.0	5.5	5.5	5.9	5.7	5.8
17	7.0	6.9	6.9	5.3	4.5	4.7	6.1	5.8	6.0	5.8	5.7	5.7
18	7.0	6.9	6.9	4.8	4.6	4.7	6.3	5.9	6.2	5.8	5.6	5.7
19	7.0	6.8	6.8	5.4	4.7	5.2	7.0	6.2	6.4	6.6	5.6	6.1
20	6.8	6.7	6.7	5.3	5.0	5.2	7.2	7.0	7.1	6.6	6.3	6.4
21	6.8	6.7	6.7	5.6	4.6	4.9	7.2	6.9	7.0	6.6	6.2	6.3
22	6.8	6.6	6.7	5.9	5.5	5.8	7.1	6.9	7.0	6.8	6.2	6.4
23	6.7	6.6	6.7	5.9	5.1	5.5	7.0	6.8	6.9	7.2	6.7	7.1
24	6.8	6.7	6.7	5.3	4.6	5.2	6.9	6.8	6.9	6.7	6.3	6.5
25	6.7	5.4	6.5	4.6	4.5	4.6	6.9	6.7	6.8	7.1	6.4	6.9
26	5.5	4.8	5.0	5.3	4.5	5.0	7.1	6.7	6.7	6.9	6.7	6.9
27	5.5	5.1	5.4	5.4	5.2	5.3	7.2	7.1	7.2	6.7	6.5	6.7
28	5.5	5.1	5.3	5.6	5.3	5.6	7.2	7.0	7.0	6.5	6.3	6.4
29	5.5	5.1	5.3	5.6	5.5	5.6	7.0	6.9	6.9	6.5	6.3	6.4
30	---	---	---	5.7	5.6	5.6	7.0	6.8	6.9	6.4	6.3	6.3
31	---	---	---	5.7	5.6	5.7	---	---	---	7.4	6.0	6.3
MAX	7.0	6.9	6.9	6.9	6.7	6.8	7.2	7.1	7.2	7.4	7.0	7.1
MIN	5.5	4.8	5.0	4.6	4.5	4.6	5.6	5.5	5.5	5.8	5.6	5.7
DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.3	6.4	7.1	6.8	6.6	6.7	7.0	6.1	6.5	6.9	6.3	6.6
2	6.9	6.4	6.6	7.9	6.6	7.4	7.5	6.5	6.8	6.7	6.5	6.6
3	6.6	6.3	6.4	7.7	6.6	7.2	7.1	6.3	6.5	6.6	6.6	6.6
4	6.9	6.6	6.7	7.1	6.7	6.9	6.8	6.5	6.6	6.6	6.5	6.6
5	7.1	5.6	6.9	6.9	6.6	6.9	6.6	6.4	6.5	6.6	6.5	6.6
6	7.0	5.1	5.7	6.9	6.7	6.8	6.5	6.3	6.4	6.6	6.5	6.6
7	7.6	6.1	7.0	6.8	6.5	6.6	6.5	6.3	6.4	6.7	6.5	6.6
8	7.6	7.5	7.6	6.6	6.4	6.5	6.5	6.3	6.4	6.7	6.5	6.6
9	7.6	7.4	7.5	7.1	6.4	6.5	6.4	6.2	6.3	6.6	6.5	6.6
10	7.5	7.3	7.4	6.7	6.5	6.6	6.3	6.2	6.2	6.6	6.5	6.6
11	7.3	7.1	7.2	6.6	6.5	6.5	6.2	6.1	6.2	6.6	6.4	6.6
12	7.3	6.8	7.1	6.6	6.5	6.5	6.2	6.0	6.1	6.5	6.3	6.4
13	7.5	6.8	7.2	6.6	6.4	6.5	6.1	5.9	6.0	6.9	6.3	6.7
14	7.0	6.8	6.9	6.6	6.1	6.4	6.1	6.0	6.0	6.8	6.7	6.8
15	7.0	6.5	6.9	6.8	5.1	6.5	6.2	6.0	6.1	6.7	6.6	6.7
16	7.0	6.4	6.7	7.1	5.8	6.4	6.3	6.1	6.2	6.7	6.5	6.6
17	7.3	6.8	6.9	7.1	6.2	6.5	6.3	6.2	6.2	6.7	6.6	6.6
18	7.3	7.0	7.1	7.7	7.1	7.5	6.3	6.1	6.2	6.7	6.5	6.6
19	7.2	6.8	7.1	7.5	7.2	7.4	6.3	6.1	6.2	7.2	6.2	6.5
20	7.0	6.7	6.8	7.2	7.0	7.1	6.3	6.2	6.3	7.2	6.7	6.8
21	6.8	5.0	6.7	7.3	6.8	6.9	6.3	6.2	6.3	6.8	6.7	6.7
22	7.0	5.6	6.7	7.4	6.9	7.2	6.3	6.2	6.3	6.7	6.5	6.5
23	7.3	7.0	7.2	7.0	6.7	6.8	6.3	6.1	6.2	6.5	6.4	6.5
24	7.3	7.2	7.2	6.7	6.5	6.6	6.3	6.1	6.2	6.4	6.3	6.4
25	7.4	5.3	7.2	6.6	6.4	6.5	6.4	6.3	6.3	6.4	6.2	6.4
26	6.4	5.3	5.9	6.5	6.3	6.4	6.4	6.2	6.3	6.5	6.1	6.3
27	7.2	6.2	6.9	6.4	6.2	6.3	6.3	6.2	6.2	6.5	6.2	6.3
28	7.2	7.0	7.1	6.4	6.2	6.3	6.3	6.2	6.2	6.3	6.1	6.3
29	7.1	6.7	6.9	6.4	6.2	6.3	6.3	6.3	6.3	6.2	6.0	6.1
30	6.9	6.7	6.8	7.0	6.1	6.6	6.3	6.3	6.3	6.1	6.0	6.1
31	---	---	---	7.2	6.5	6.7	6.3	6.3	6.3	---	---	---
MAX	7.6	7.5	7.6	7.9	7.2	7.5	7.5	6.5	6.8	7.2	6.7	6.8
MIN	6.4	5.0	5.7	6.4	5.1	6.3	6.1	5.9	6.0	6.1	6.0	6.1

YEAR MAX  
MIN  
MEDIAN

MAXIMUM 7.9  
MAXIMUM 7.5  
MAXIMUM 7.6

MINIMUM 4.6  
MINIMUM 4.5  
MINIMUM 4.6

## SWATARA CREEK BASIN

0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA--Continued

## WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	13.0	11.0	12.0	12.0	9.0	10.5	3.0	2.0	2.5	4.0	1.5	3.0
2	13.5	11.0	12.5	13.5	10.0	11.5	4.5	2.5	3.5	6.0	3.5	4.5
3	13.5	11.5	12.5	11.5	6.5	8.5	6.5	4.0	5.0	7.5	6.0	7.0
4	13.5	11.5	12.5	7.5	5.5	6.5	8.5	5.5	7.0	9.0	6.5	8.0
5	11.5	9.5	11.0	8.5	5.0	7.0	9.5	7.0	8.0	6.5	2.5	4.0
6	11.5	8.5	10.0	10.5	7.0	8.5	9.5	7.5	8.5	3.0	1.0	2.0
7	10.0	8.0	9.0	8.0	5.5	7.0	8.0	5.0	6.5	4.5	2.5	3.0
8	10.5	7.0	9.0	7.0	5.0	5.5	6.0	4.0	5.0	3.0	1.5	2.5
9	12.5	10.5	11.5	8.5	4.5	7.0	6.0	4.0	5.0	4.5	2.5	4.0
10	13.5	12.0	13.0	11.0	8.0	10.0	6.5	4.5	5.5	5.5	4.5	5.0
11	14.0	11.0	13.0	10.5	5.5	9.0	5.0	4.0	4.5	5.0	4.0	4.5
12	12.0	9.5	11.0	7.0	5.0	6.0	5.0	3.0	4.0	4.5	3.5	4.0
13	12.5	10.0	11.5	9.0	6.5	7.5	5.0	3.0	4.0	4.0	1.0	3.5
14	12.5	8.5	10.5	9.5	6.0	7.5	5.5	4.0	5.0	1.0	.0	.5
15	10.0	7.5	9.0	7.0	5.5	6.0	6.5	5.0	6.0	2.0	.5	1.0
16	11.5	8.5	10.0	5.5	3.0	4.0	6.5	5.0	6.0	3.5	1.0	2.5
17	12.5	10.0	11.5	4.5	2.5	3.0	5.0	4.5	5.0	1.0	.0	.5
18	12.0	9.0	10.5	5.0	2.0	3.5	5.5	5.0	5.0	1.0	.0	.5
19	9.5	7.5	8.5	6.5	3.5	5.0	5.0	4.0	4.5	1.0	.0	.5
20	10.5	9.0	9.5	8.0	5.0	6.5	6.0	4.5	5.0	1.5	.5	1.0
21	10.0	7.5	8.5	9.5	7.0	8.0	6.0	4.0	5.0	.5	.0	.5
22	9.5	6.5	8.5	10.5	7.5	9.0	4.0	2.5	4.0	.5	.0	.5
23	9.0	8.0	8.5	10.5	9.5	10.0	4.0	2.0	3.0	1.5	.5	1.0
24	9.5	7.5	8.5	12.0	10.5	11.0	2.5	.5	1.5	2.5	1.0	1.5
25	9.5	7.0	8.0	11.0	8.5	9.5	1.5	.0	1.0	1.0	.0	.5
26	10.0	6.5	8.5	11.5	8.5	10.0	3.0	1.0	2.0	1.5	.5	1.0
27	9.0	6.5	8.0	11.0	8.5	9.5	3.0	2.0	2.5	.5	.0	.0
28	8.5	5.5	7.0	8.5	6.0	7.5	2.0	.5	1.5	.0	.0	.0
29	10.0	6.0	8.0	6.5	5.0	6.0	2.5	1.0	2.0	.5	.0	.5
30	11.0	7.5	9.5	5.0	3.0	4.5	4.0	1.5	2.5	1.0	.0	.5
31	12.0	8.0	10.0	---	---	---	4.5	3.0	3.5	1.0	.0	.5
MONTH	14.0	5.5	10.0	13.5	2.0	7.5	9.5	.0	4.3	9.0	.0	2.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	1.5	.0	1.0	6.0	4.5	5.5	9.5	5.5	7.5	12.0	6.5	9.5
2	1.5	.0	.5	6.0	5.0	5.5	9.5	7.5	8.5	13.5	9.0	11.5
3	1.0	.0	.5	6.0	4.5	5.0	12.0	9.0	10.5	14.0	7.5	10.5
4	2.0	.5	1.0	6.5	4.0	5.0	11.0	7.5	10.0	15.5	9.5	12.5
5	2.0	.5	1.0	7.5	4.5	6.0	8.0	6.0	7.0	16.5	11.5	14.0
6	2.0	.5	1.0	7.0	4.5	5.5	11.0	6.0	8.0	17.0	12.5	14.5
7	2.5	.5	1.5	8.5	4.0	6.5	9.5	7.0	8.5	18.5	13.0	15.5
8	1.0	.0	.5	11.0	6.5	8.5	12.0	7.5	9.5	18.5	13.5	16.0
9	1.0	.0	.5	10.5	7.0	8.5	7.5	4.5	6.5	19.0	14.0	16.5
10	3.0	.5	1.5	9.5	7.0	8.5	9.0	6.0	7.5	17.0	13.0	15.0
11	3.5	1.5	2.5	7.0	6.0	6.5	7.5	6.5	7.0	15.0	11.5	13.5
12	2.5	.5	1.0	6.0	4.0	5.5	9.0	6.0	7.5	15.0	12.5	14.0
13	1.0	.0	.5	6.5	3.5	5.0	9.0	5.0	7.0	15.5	13.0	14.0
14	1.5	1.0	1.0	7.5	4.0	5.5	9.5	6.0	8.0	15.0	11.5	13.0
15	2.5	1.0	2.0	8.5	4.5	6.5	10.5	7.5	9.0	13.0	9.5	11.5
16	4.0	1.0	2.5	9.0	6.0	7.5	14.0	9.5	11.0	12.5	8.5	10.5
17	2.5	1.0	1.5	8.0	3.5	6.0	10.5	7.5	9.0	13.5	10.5	12.0
18	1.5	.0	1.0	5.5	2.5	4.0	8.0	7.0	7.5	15.5	12.0	13.5
19	3.0	1.5	2.0	6.0	4.0	5.0	11.0	7.5	9.0	14.0	11.0	13.0
20	3.0	1.5	2.5	7.0	5.0	6.0	12.0	9.0	10.5	11.0	10.0	10.5
21	3.5	1.0	2.0	6.0	4.5	5.5	10.0	8.5	9.0	11.5	10.0	11.0
22	4.0	1.0	2.5	8.0	5.0	6.5	9.5	8.0	8.5	11.5	11.0	11.5
23	5.0	2.5	3.5	9.0	7.0	8.0	9.0	7.5	8.0	12.5	11.0	11.5
24	5.0	3.0	4.0	10.0	7.0	8.5	12.5	7.0	9.5	15.0	12.0	13.0
25	6.0	3.5	4.5	9.5	7.5	8.5	12.0	8.0	9.5	14.0	12.0	13.0
26	5.0	4.5	4.5	9.5	7.0	8.5	10.5	8.0	9.0	14.0	11.0	12.5
27	6.0	5.0	5.5	9.0	6.0	7.5	8.5	7.5	8.0	12.0	11.0	11.5
28	6.0	5.0	5.5	9.0	7.5	8.0	11.0	8.0	9.0	12.0	10.5	11.5
29	6.0	4.5	5.0	7.5	6.5	7.0	13.0	6.5	9.5	12.0	10.5	11.5
30	---	---	---	8.5	6.0	7.0	13.0	8.0	10.0	13.0	10.0	11.5
31	---	---	---	9.0	5.5	7.0	---	---	---	12.5	9.5	11.0
MONTH	6.0	.0	2.2	11.0	2.5	6.6	14.0	4.5	8.6	19.0	6.5	12.6

SWATARA CREEK BASIN

**0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA--Continued**

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000